

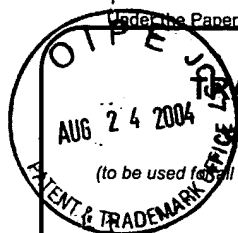
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PTO/SB/21 (02-04)

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/614,807
	Filing Date	July 9, 2003
	First Named Inventor	Wuwen Yi et al.
	Art Unit	1773
	Examiner Name	Unknown
Total Number of Pages in This Submission	Attorney Docket Number	30-5004(4015) C4P

ENCLOSURES (Check all that apply)		
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Jennifer J. Taylor, Ph.D., Reg. No. 48,711; Wells St. John P.S.
Signature	<i>Jennifer J. Taylor</i>
Date	August 24, 2004

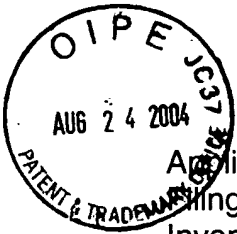
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EV372459783



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No. 10/614,807
Filing Date July 9, 2003
Inventor Vladimir Segal et al.
Assignee Honeywell International Inc.
Group Art Unit 1773
Examiner Unknown
Attorney's Docket No. 30-5004-CIP
Title: Copper Sputtering Targets and Methods of Forming Copper Sputtering Targets

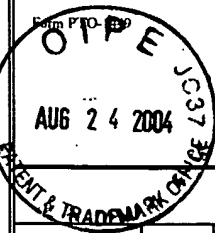
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

The attached form PTO-1449 is submitted in compliance with 37 CFR § 1.56. Copies of the cited art are included. No admission is made regarding whether all the submitted references are prior art.

This Information Disclosure Statement is being filed within three months of the filing date of the application or before the mailing of a first Office Action, whichever occurs last. Therefore, no fee is believed to be required. However, in the event that a fee is required for filing this information disclosure statement, please charge the fee specified under 37 C.F.R. §1.17(p) to Deposit Account No. 23-0925. Please credit Deposit Account No. 23-0925 with any overpayment of the above fee.

Respectfully submitted,

Dated: August 24, 2004 By: Jennifer J. Taylor
Jennifer J. Taylor, Ph.D.
Reg. No. 48,711

		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 30-5004CIP		SERIAL NO. 10/614,807	
		LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)					
		APPLICANT Wuwen Yi et al.				FILING DATE July 9, 2003	
U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA						
	AB						
	AC						
	AD						
	AE						
FOREIGN PATENT DOCUMENTS							
	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	AF						
	AG						
	AH						
	AI						
	AJ						
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
	AK		F. J. Humphreys et al., "Developing stable fine-grain microstructures by large strain deformation", Phil. Trans. R. Soc. Lond. A, June 15, 1999, Vol. 357 #1756, pp. 1663-1681.				
	AL		S. Ferrasse et al., "Texture evolution during equal channel angular extrusion Part I. Effect of route, number of passes and initial texture", Materials Science and Engineering, Vol. 368, March 15, 2004, pp. 28-40.				
	AM		V.M. Segal, "Equal channel angular extrusion: from macromechanics to structure formation", Materials Science & Engineering A271, November 1, 1999, pp. 322-333.				
	AN		Ruslan Z. Valiev et al., "SPD-Processed Ultra-Fine Grained Ti Materials for Medical Applications", Advanced Materials & Processes, December 2003, pp. 33-34.				
	AR		Segal et al., "Plastic Working of Metals by Simple Shear", Russian Metall. Vol. 1, pp. 99-105, 1991.				
	AS		M. Furukawa et al., "Microhardness Measurements and the Hall-Petch Relationship in an Al-Mg Alloy with Submicrometer Grain Size", Acta Mater. Vol. 44, No. 11, pp. 4619-4629, 1996.				
	AT		Yoshinori Iwahashi et al., "Microstructural Characteristics of Ultrafine-Grained Aluminum Produced Using Equal-Channel Angular Pressing", Metallurgical and Materials Transactions, Vol. 29A, pp. 2245-2252, September 1998.				
EXAMINER		DATE CONSIDERED					
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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
30-5004CIPSERIAL NO.
10/614,807LIST OF ART CITED BY APPLICANT
(Use several sheets if necessary)APPLICANT
Wuwen Yi et al.FILING DATE
July 9, 2003GROUP
1773

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AF							
	AG							
	AH							
	AI							
	AJ							

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)

	AK		S. Ferrasse et al., "ECAE Targets with Sub-Micron Grain Structures Improve Sputtering Performance and Cost-of-Ownership", Semiconductor Manufacturing, Vol. 4, Issue 10, October 2003, pp. 76-92.
	AL		R.Z. Valiev et al., "Bulk Nanostructured materials from severe plastic deformation", Progress in Materials Science, Vol. 45, 2000, pp. 103-189.
	AM		R. Z. Valiev et al., "Plastic Deformation of alloys with submicron-grained structure", Materials Science and Engineering, A137(1991) pp. 35-40.
	AN		V. M. Segal et al., "Processes of Plastic Structure Formation", Science and Engineering, 1994, published in Russia, Chapters 1, 3 and 4, with Statement in Accordance with 37 CFR 1.98(a)(3)(i).
	AR		Lyman et al., Metals Handbook, pub. by American Society for Metals, 8 th edition, 1961, pp. 15 and 18.
	AS		
	AT		

EXAMINER

DATE CONSIDERED

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